Fig.1.

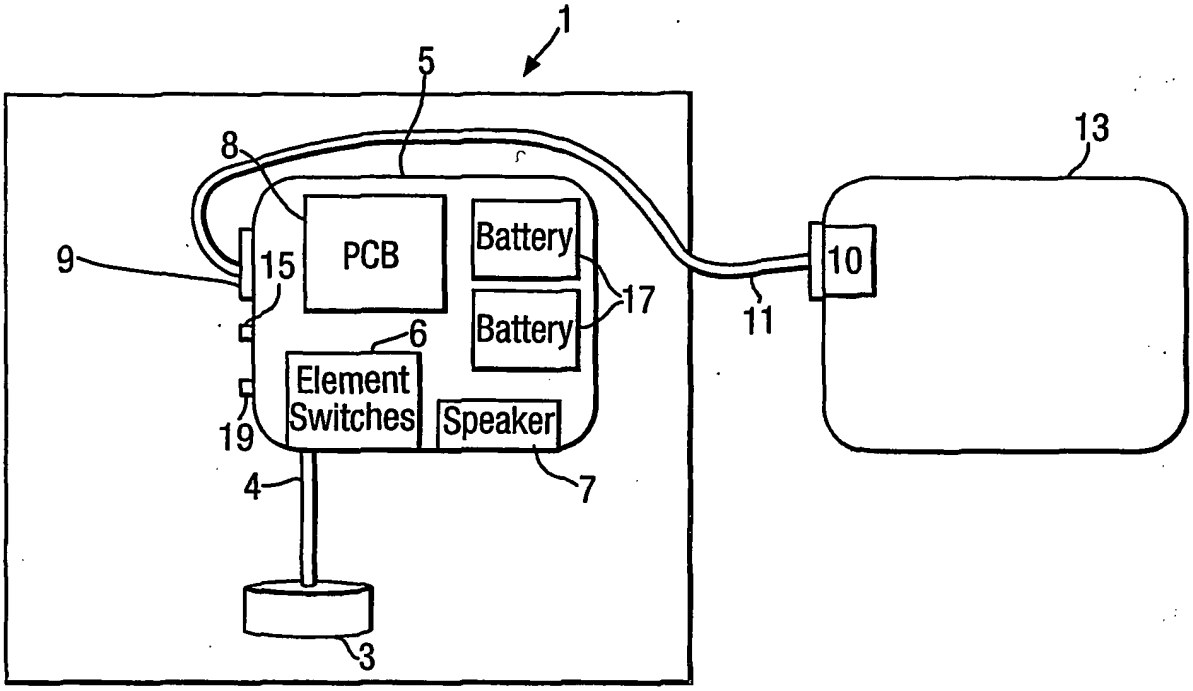

1
5
8
9
15
PCB
Battery
Battery
17
10
11
13
6
Element Switches
Speaker
19
4
7
3

Fig.2.

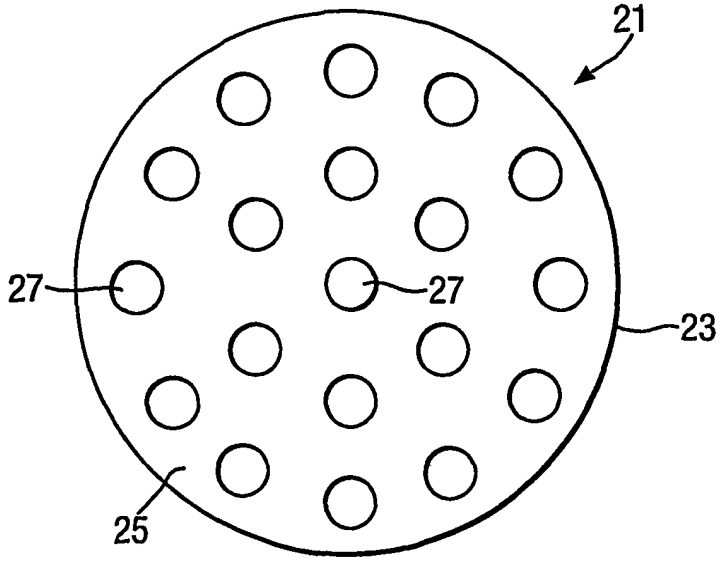

21
27
27
23
25

Fig.3.

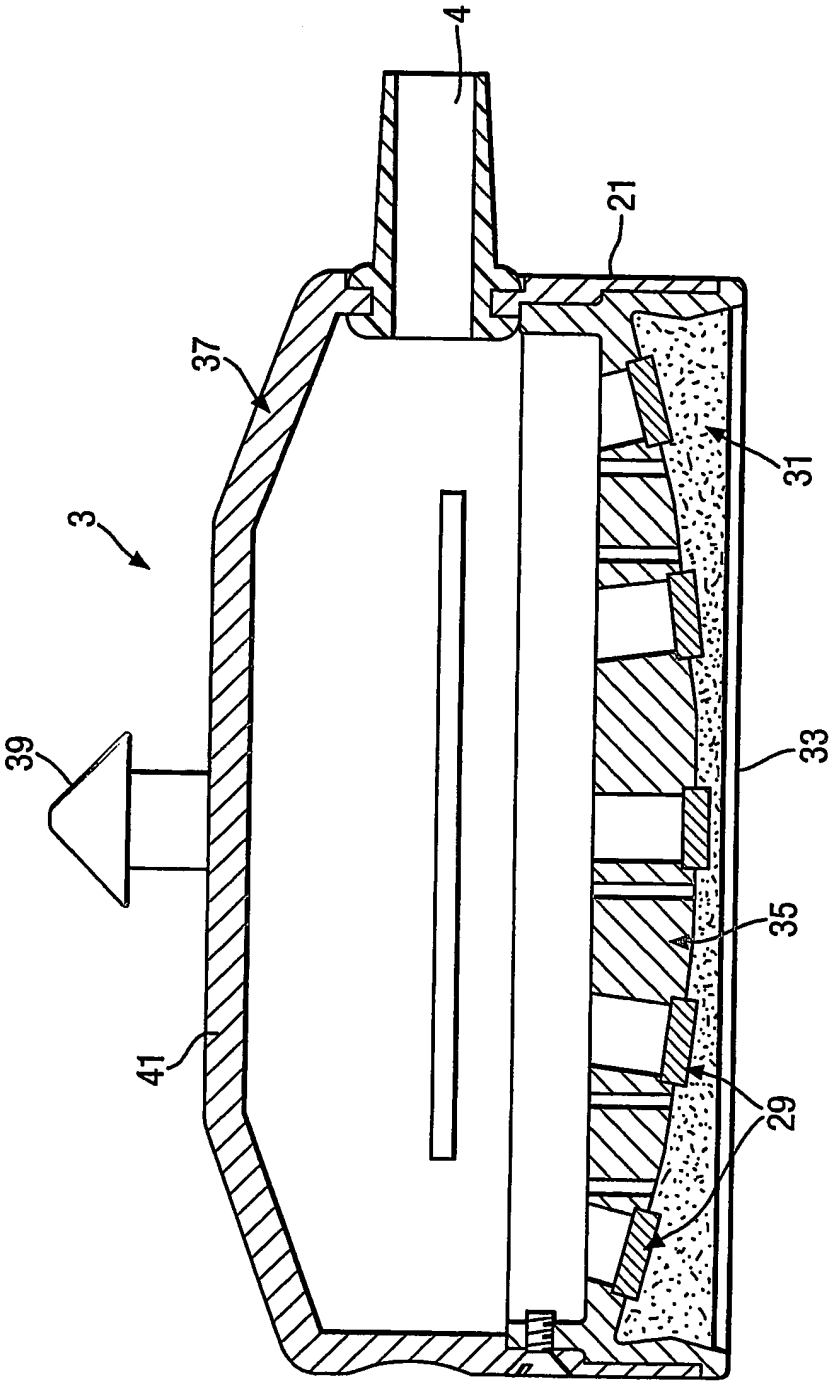


Fig.4.

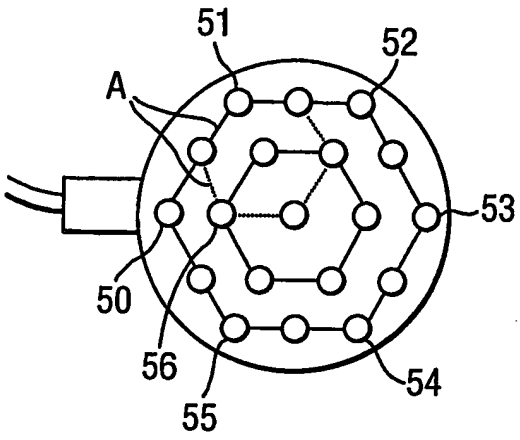


Fig.5.

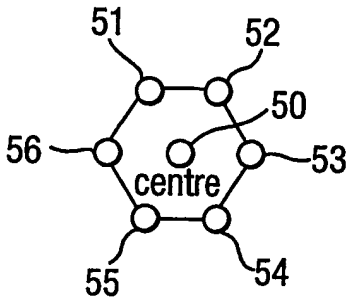


Fig.6a.

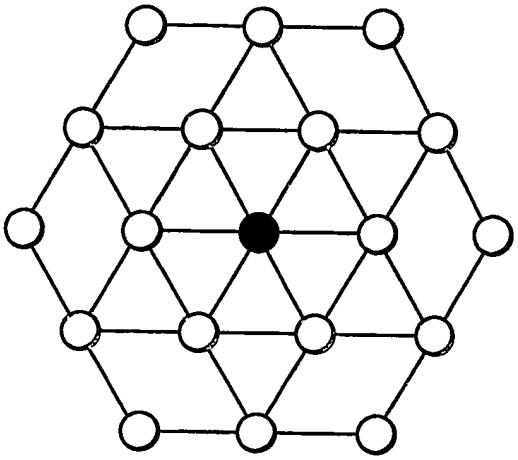


Fig.6b.

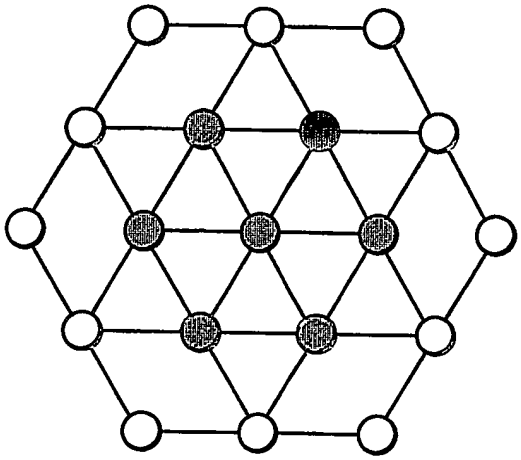


Fig.6c.

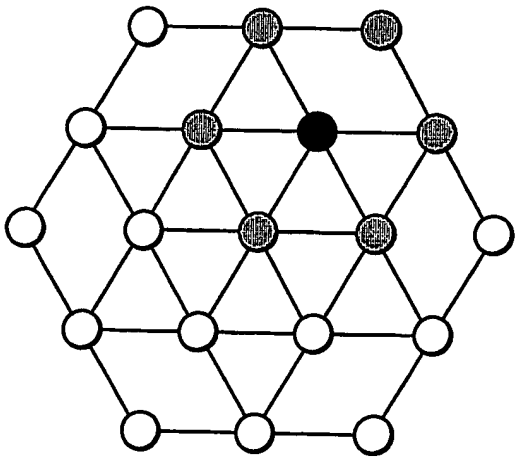
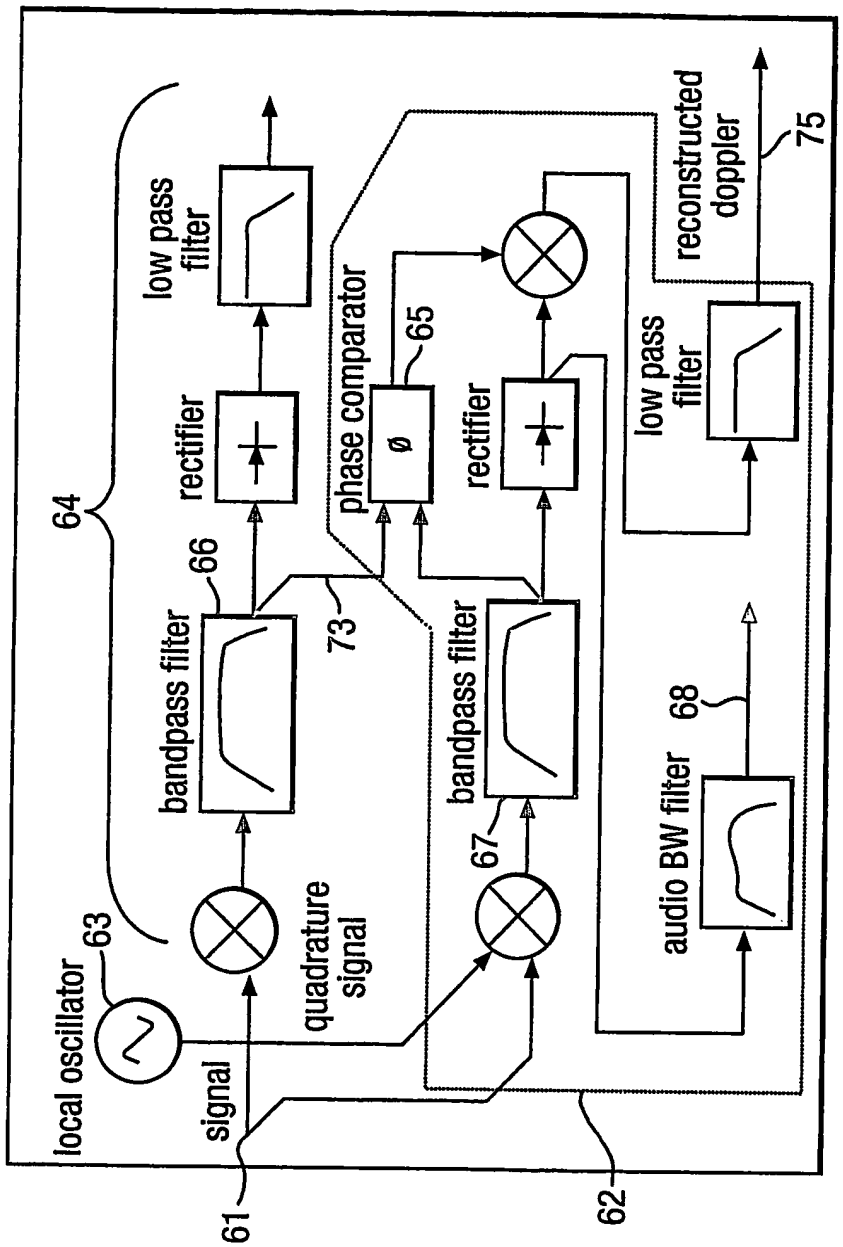


Fig.7.


local oscillator
63
signal
quadrature signal
bandpass filter
66
rectifier
low pass filter
64
61
73
phase comparator
65
ø
bandpass filter
67
rectifier
low pass filter
reconstructed doppler
75
audio BW filter
68
62
60

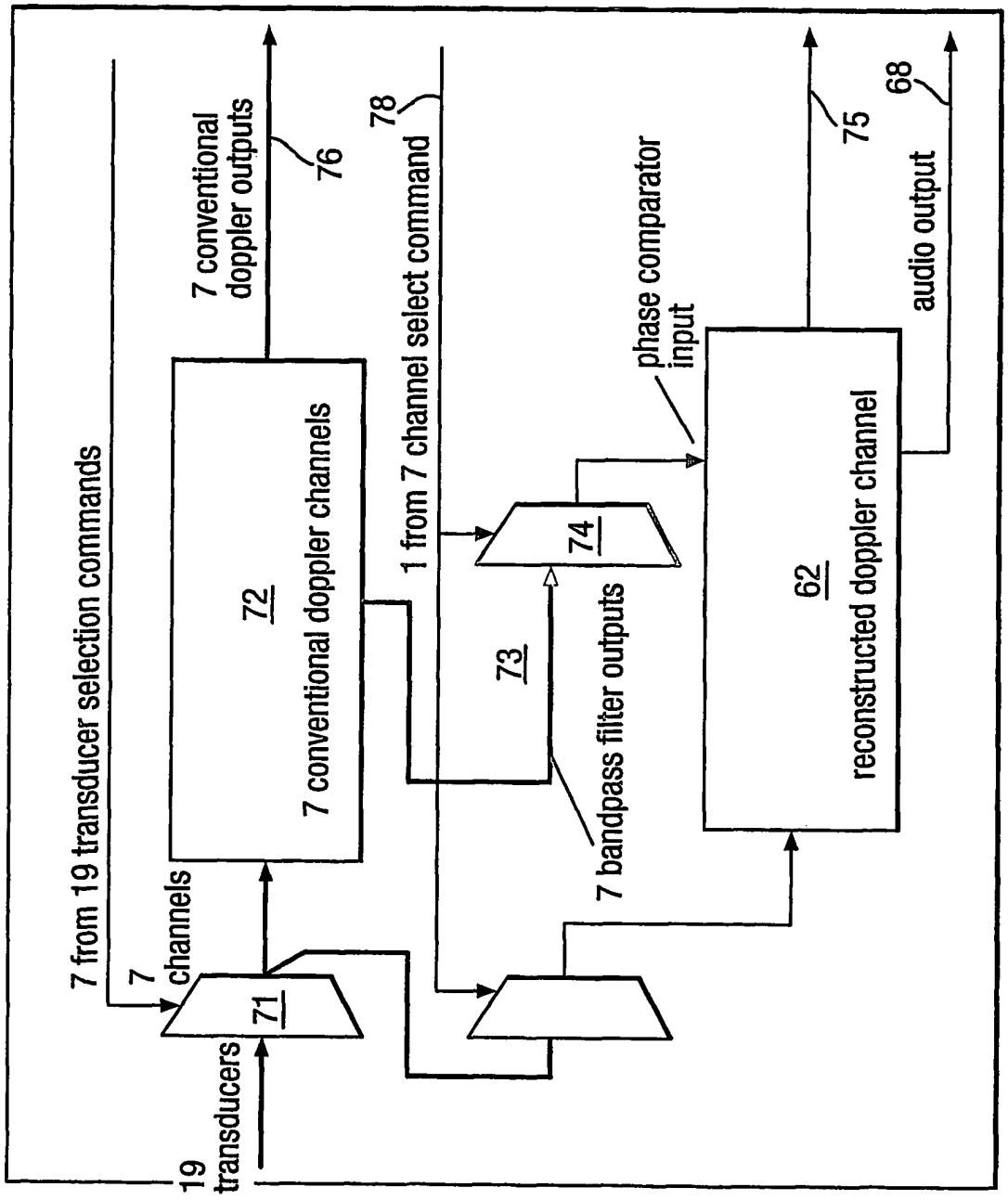
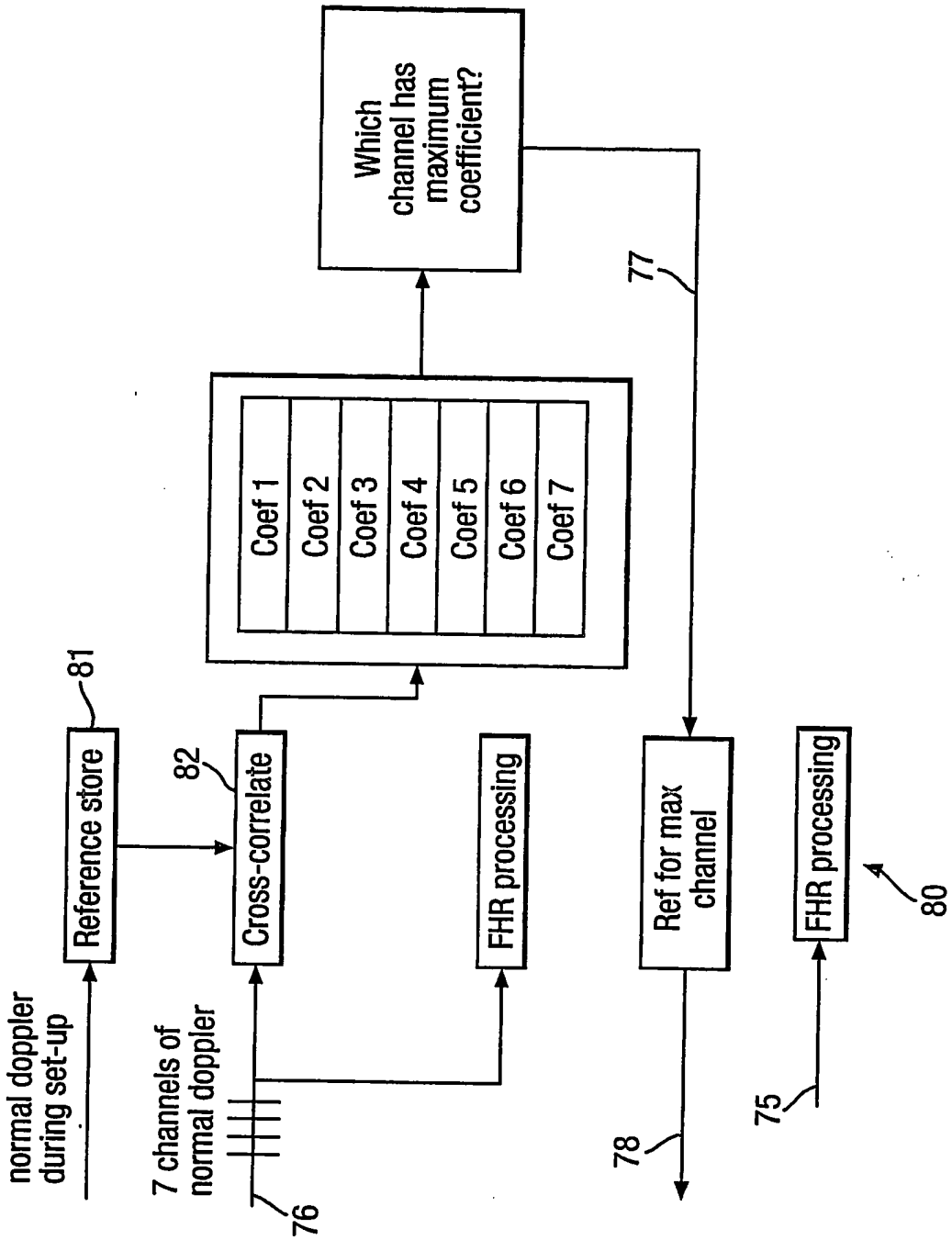

19 transducers
7 channels
7 from 19 transducer selection commands
71
72
7 conventional doppler channels
7 conventional doppler outputs
76
73
7 bandpass filter outputs
74
78
1 from 7 channel select command
phase comparator input
62
reconstructed doppler channel
75
68
audio output
70

Fig.8.

Fig. 9.


normal doppler during set-up
7 channels of normal doppler
76
Reference store
81
Cross-correlate
82
Coef 1
Coef 2
Coef 3
Coef 4
Coef 5
Coef 6
Coef 7
Which channel has maximum coefficient?
77
FHR processing
Ref for max channel
78
FHR processing
75
80

10/551087

Fig.10.

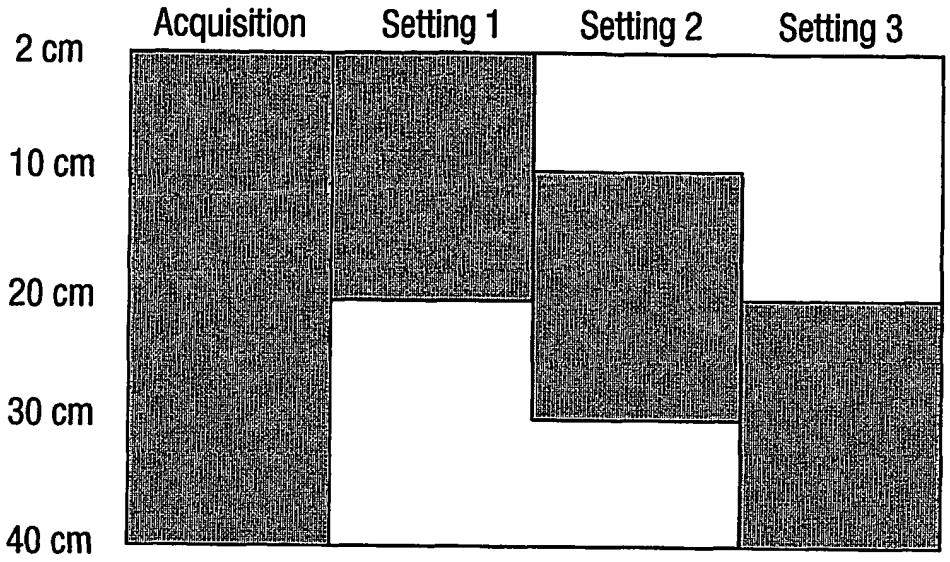
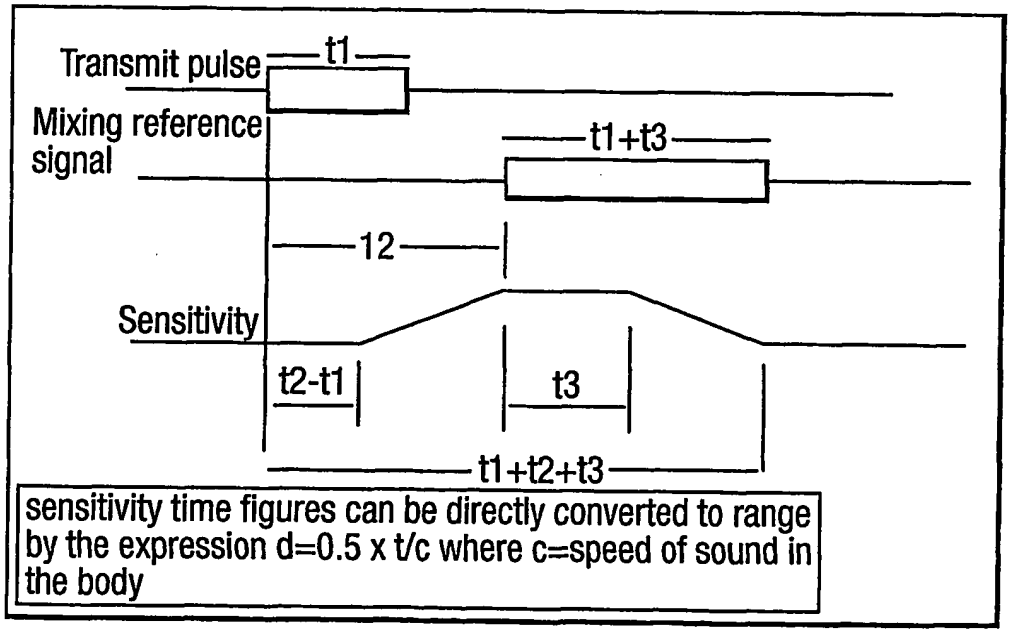



Fig.11.